

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-031671  
(43)Date of publication of application : 06.02.2001

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(51)Int.CI. C07D317/22  
B01J 23/44  
C07D319/06  
// C07B 61/00

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## (54) PRODUCTION OF ETHER ACETAL

### Abstract:

**PROBLEM TO BE SOLVED:** To provide a method for producing an ether acetal in high yield with a simple operation without requiring to use an organic halogen compound and without generating a large amount of salts as by-products.

**SOLUTION:** This production of an ether acetal is to produce a compound having ether and acetal skeletons in one pot by reacting a polyhydric alcohol having  $\geq 3$  hydroxy groups with a carbonyl compound under a hydrogen atmosphere having normal to 2 MPa hydrogen pressure in the presence of a palladium-based catalyst at 10–200° C. During the reaction, operations for flowing hydrogen and dropping the carbonyl compound are preferably included.

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## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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